MM-E320D
MM-E330D

DVD MICRO COMPONENT SYSTEM

user manual

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please register your product at

www.samsung.com/register

SAMSUNG

Safety Information

Safety Warnings

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.	**CAUTION** : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.	This symbol indicates important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LÁSER CLASE 1

CLASS 1 LASER PRODUCT

This product is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

- INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

Safety Information

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause skipping.

Be especially careful not to scratch discs when handling them.

Holding discs

- Do not touch the playback side of the disc.
- Hold the disc by the edges so that fingerprints will not get on the surface.
- Do not stick paper or tape on the disc.

Disc Storage

- Do not keep in direct sunlight
- Keep in a cool ventilated area
- Keep in a clean Protection jacket.

Store vertically.

NOTE

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs

If you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc

NOTE

- Condensation may form if warm air comes into contact with cold parts inside the product. When condensation forms inside the product, it may not operate correctly. If this occurs, remove the disc and let the product stand for 1 or 2 hours with the power on.

License

- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX,LLC,a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.
- DivX Certified® to play DivX® video .
- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.
- Covered by one or more of the following U.S. patents : 7,295,673; 7,460,668; 7,515,710; 7,519,274.

Copyright

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Copy Protection

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your product directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Accessories

Check for the supplied accessories below.

Video Cable	FM Antenna	User's Manual	Remote Control/Batteries(AAA size)(optional)

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Getting Started

Precautions

- Ensure that the AC power supply in your house complies with the identification sticker located on the back of your product.
- Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm).
- Do not place the product on amplifiers or other equipment which may become hot. Make sure the ventilation slots are not covered.
- Do not stack anything on top of the product.
- Before moving the product, ensure the Disc Insert Hole is empty.
- In order to disconnect the product completely from the power supply, remove the AC plug from the wall outlet, especially when left unused for a long period of time.
- During thunderstorms, disconnect the AC plug from the wall outlet. Voltage peaks due to lightning could damage the product.
- Do not expose the product to direct sunlight or other heat sources. This could lead to overheating and malfunction of the product.
- Protect the product from moisture, and excess heat or equipment creating strong magnetic or electric fields (i.e. speakers.).
- Disconnect the power cable from the AC supply if the product malfunctions. Your product is not intended for industrial use.
- Use of this product is for personal use only.
- Condensation may occur if your product or disc has been stored in cold temperatures. If transporting the product during the winter, wait approximately 2 hours until the product has reached room temperature before using.
- The batteries used with this product contain chemicals that are harmful to the environment. Do not dispose of batteries in the general household trash.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Place the speakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the speakers towards the listening area.

Icons that will be used in manual

Make sure to check the following terms before reading the user manual.

Icon	Term	Definition
DVD	DVD	This involves a function available with DVD-Video or DVD±R/±RW discs that have been recorded and finalised in Video Mode.
CD	CD	This involves a function available with a data CD (CD-DA, CD-R/-RW).
MP3	MP3	This involves a function available with CD-R/-RW discs.
JPEG	JPEG	This involves a function available with CD-R/-RW discs.
DivX	DivX	This involves a function available with MPEG4 discs. (DVD±R/±RW, CD-R/-RW)
!	CAUTION	This involves a case where a function does not operate or settings may be canceled.
✎	NOTE	This involves tips or instructions on the page that help each function operate.

Getting Started

Disc Types and Characteristics

Region Code

The product and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

Disc Type	Region Code	Area
DVD-VIDEO		The U.S., U.S. territories and Canada
		Europe, Japan, the Middle East, Egypt, South Africa, Greenland
		Taiwan, Korea, the Philippines, Indonesia, Hong Kong
		Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
		Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
		China

Disc types that can be played

Disc Types & Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
DVD-VIDEO	VIDEO	12 cm	Approx. 240 min. (single-sided) Approx. 480 min. (double-sided)
AUDIO-CD	AUDIO	12 cm	74 min.
DivX	AUDIO + VIDEO	12 cm	–

Do not use the following types of disc!

- LD, CD-G, CD-I, CD-ROM, DVD-ROM and DVD-RAM discs cannot be played on this product. If such discs are played, a <WRONG DISC FORMAT> message appears on the TV screen.
- DVD discs purchased abroad may not play on this product.
  If such discs are played, a <Wrong Region. Please check Disc.> message appears on the TV screen.

Disc Types And Disc Format

This product does not support Secure (DRM) Media files.

CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
  Do not use CD-R discs over 700MB/80 minutes as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.
- An administration fee may be charged if either
  a. an engineer is called out at your request and there is no defect in the product
  (i.e. where you have failed to read this user manual)
  b. you bring the unit to a repair centre and there is no defect in the product
  (i.e. where you have failed to read this user manual).
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/ decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 999 tracks can be played per CD.
- A maximum of 250 folders can be played per CD.

CD-R JPEG Discs

- Only files with the "jpg" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 999 images can be stored on a folder.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

DVD±R/±RW, CD-R/RW Discs

- Software updates for incompatible formats are not supported.
  (Example : QPEL, GMC, resolution higher than 800 x 600 pixels, etc.)
- If a DVD-R/-RW disc has not been recorded properly in DVD Video format, it will not be playable.

DivX (Digital internet video express)

DivX is a video file format developed by Microsoft and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.

MPEG4 is used for video encoding and MP3 for audio encoding so that the users can watch a movie at near DVD-quality video and audio.

Supported Formats (DivX)

This product only supports the following media formats. If both video and audio formats are not supported, the user may experience problems such as broken images or no sound.

Supported Video Formats

Format	Supported Versions
AVI	DivX3.11~DivX5.1
WMV	V1/V2/V3/V7

Supported Audio Formats

Format	Bit Rate	Sampling Frequency
MP3	80~320kbps	44.1khz
WMA	56~128kbps	
AC3	128~384kbps	44.1/48khz

- Aspect Ratio : This product supports up to 720x576 pixels. TV screen resolutions higher than 800 will not be supported.
- When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.
- Sections with a high frame rate might not be played while playing a DivX file.
- Since this product only provides encoding formats authorized by DivX Networks, Inc., a DivX file created by the user might not play.

USB Host Specification

USB Host Specification

- Supports USB 1.1 or USB 2.0 compliant devices.
- Supports devices connected using the USB A type cable.
- Supports UMS (USB Mass Storage Device) V1.0 compliant devices.
- Supports the device of which the connected drive is formatted in the FAT (FAT, FAT16, FAT32) file system.

Non-compliance

- Does not support a device that requires installing a separate driver on the PC (Windows).
- Does not support connection to a USB hub.
- A USB device that is connected using the USB extension cable may not be recognized.
- A USB device requiring a separate power source needs to be connected to the product with the separate power connection.

Operational Limitations

- If the connected device has multiple drives (or partitions) installed, only one drive (or partition) can be connected.
- A device supporting USB 1.1 alone may cause a difference in the picture quality, depending on the device.

USB Devices that can be used with the product

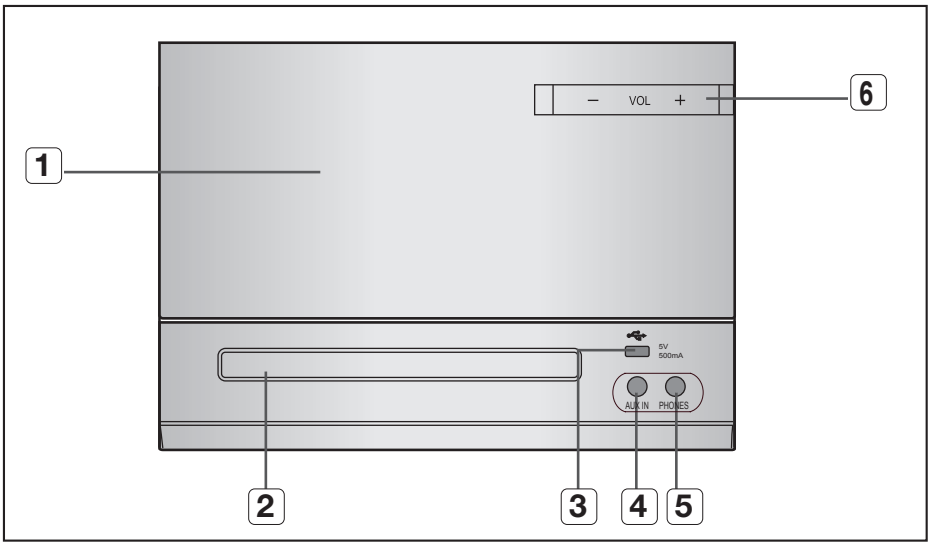
- USB Storage Device, MP3 Player, Digital Camera
- Removable HDD
  - Removable HDDs equipped with less than 160 Gbytes are supported. Removable HDDs equipped with 160Gbytes or more may not be recognized, depending on the device.
  - If the connected device does not work due to insufficient power supply, you can use a separate power cable to supply power so that it can work properly. The connector of the USB cable may differ, depending on the manufacturer of the USB device.
- USB card Reader: One slot USB card reader and Multi slot USB card reader.
  - The USB card reader may not be supported, depending on the manufacturer.
  - If you install multiple memory devices into a multi card reader, you may experience problems.

Supported file Formats

Format	Still Picture	Music		Movie	
File name	JPG	MP3	WMA	WMV	DivX
File extension	JPG .JPEG	.MP3	.WMA	.WMV	.AVI
Bit rate	–	80~320 kbps	56~128 kbps	4Mbps	4Mbps
Version	–	–	V8	V1,V2, V3,V7	DivX3.11~ DivX5.1
Pixel	640x480	–	–	720x576	
Sampling Frequency	–	44.1kHz	44.1kHz	44.1KHz~ 48KHz	

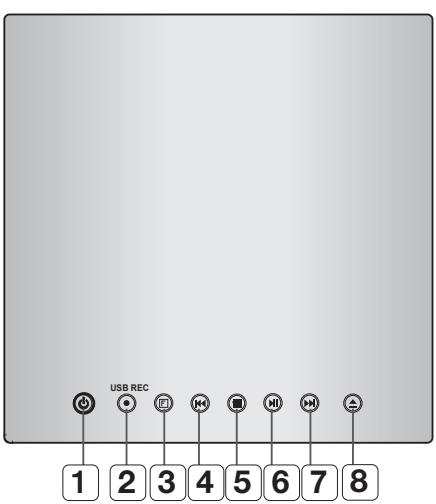
- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- Some MP3 players, when connected to this product, may not operate depending on the sector size of their file system.
- The USB host function is not supported if a product that transfers media files by its manufacturer specific program is connected.
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.
- The USB host function of this product does not support all USB devices.

Front Panel



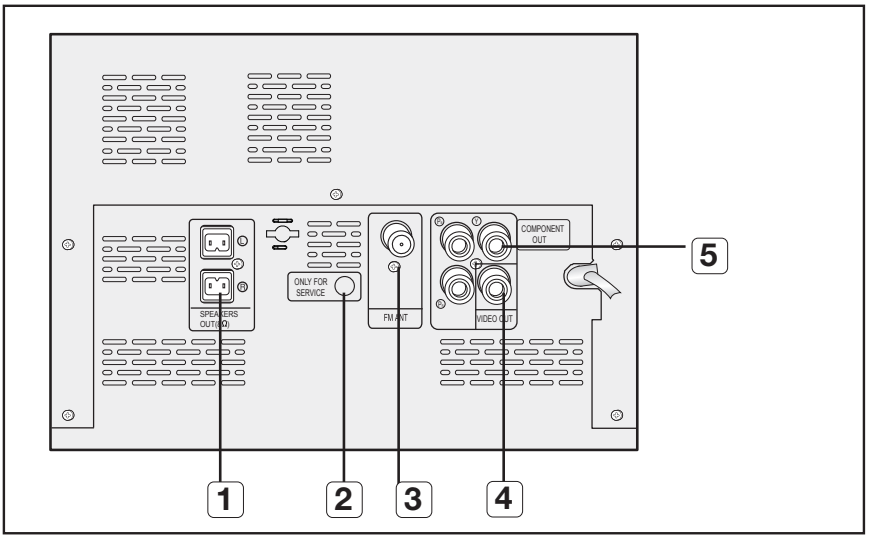
1. WINDOW DISPLAY
2. COMPACT DISC COMPARTMENT
3. USB JACK
4. AUX IN JACK
5. PHONES JACK
6. VOLUME CONTROL BUTTON

Top Panel



1. POWER BUTTON
2. USB REC BUTTON
3. FUNCTION BUTTON
4. SKIP/SEARCH FUNCTION BUTTON
5. TUNING MODE OR STOP BUTTON
6. PLAY/PAUSE BUTTON
7. SKIP/SEARCH FUNCTION BUTTON
8. OPEN/CLOSE BUTTON

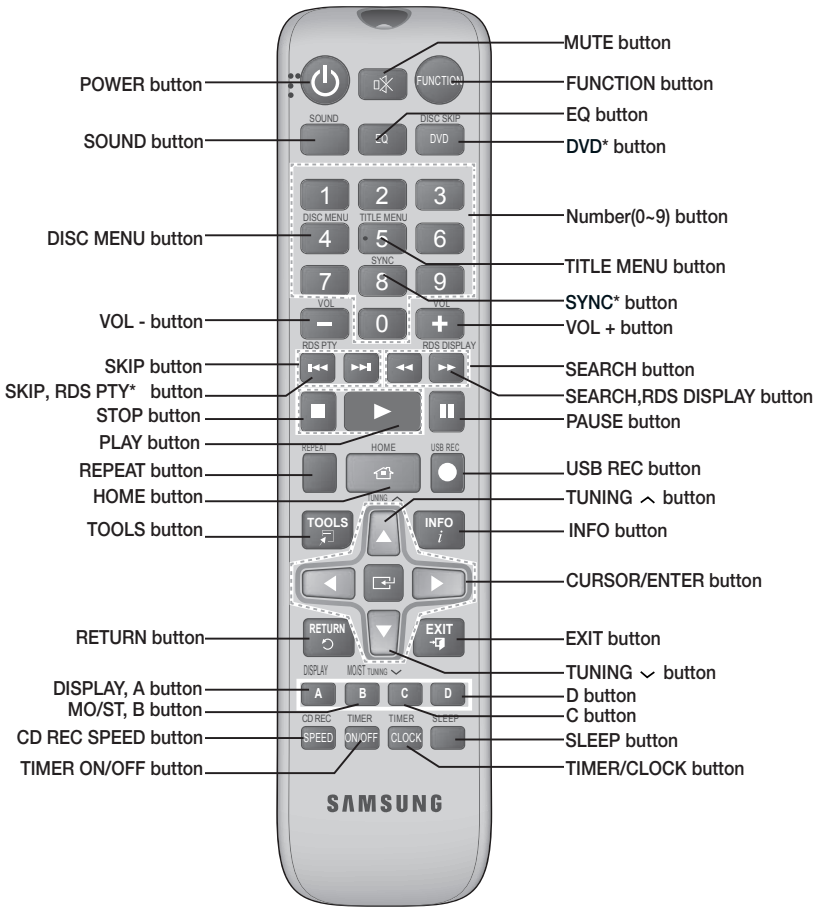
Rear Panel



1	2.0 CHANNEL SPEAKER OUTPUT CONNECTORS	Connect the front speakers.
2	ONLY FOR SERVICE	This jack is just for testing,please don't use it.
3	FM ANTENNA JACK	Connect the FM antenna.
4	VIDEO OUT JACK	Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT jack.
5	COMPONENT VIDEO OUTPUT JACKS	Connect a TV with Component video inputs to these jacks.

Remote control

Tour of the Remote Control



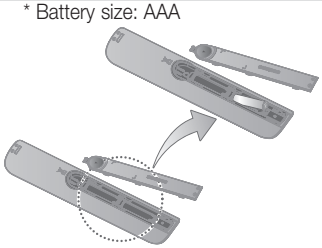
* This product does not support the DISC SKIP/SYNC function with marked [*].
* This product may not have the RDS function depending on your region.

Installing batteries in the Remote Control

* Battery size: AAA

NOTE

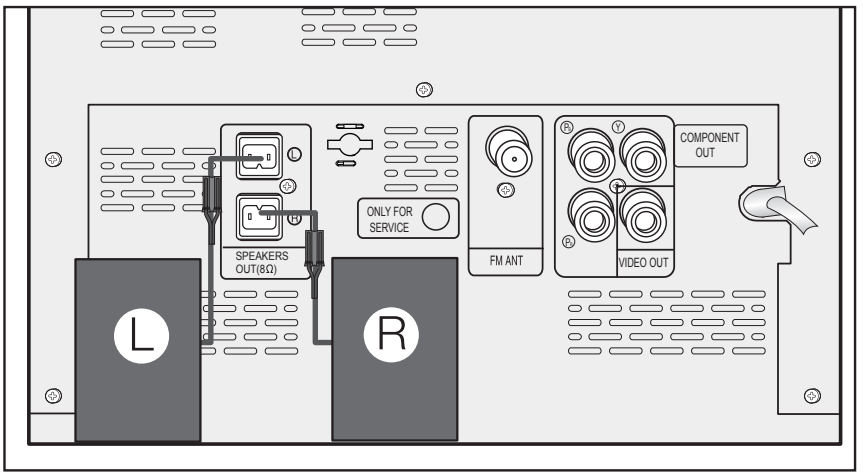
- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.
- The remote control can be used up to approximately 23 feet (7 meters) in a straight line.



Connections

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

Connecting the Speakers



Position of the product

Place it on a stand or cabinet shelf, or under the TV stand.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV.
Example : For 32" TV's 2~2.4 m
For 55" TV's 3.5~4 m

Front Speakers L R

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
Place the speakers so that their tweeters will be at the same height as your ear.

! CAUTION

- Do not let children play with or near the speakers. They could get hurt if the speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.

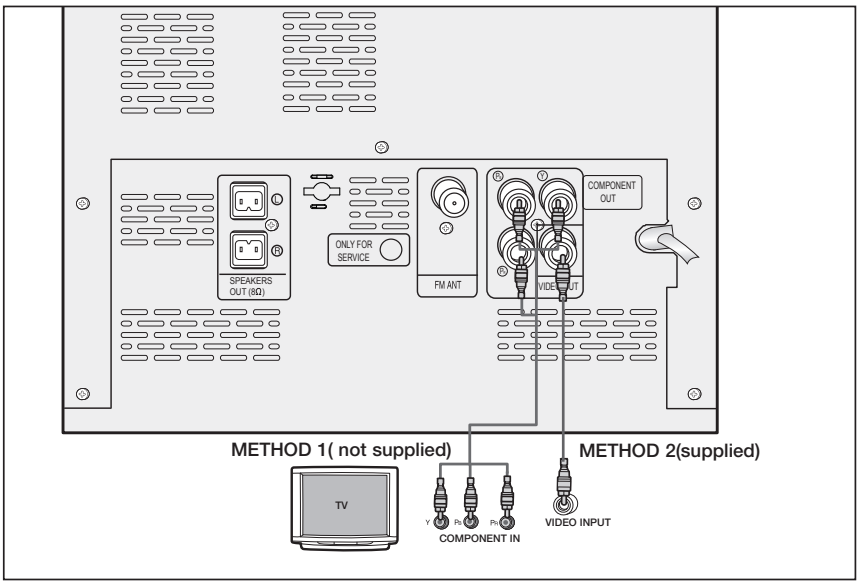
✎ NOTE

- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

Connections

Connecting the Video Out to your TV

Choose one method for connecting to a TV.



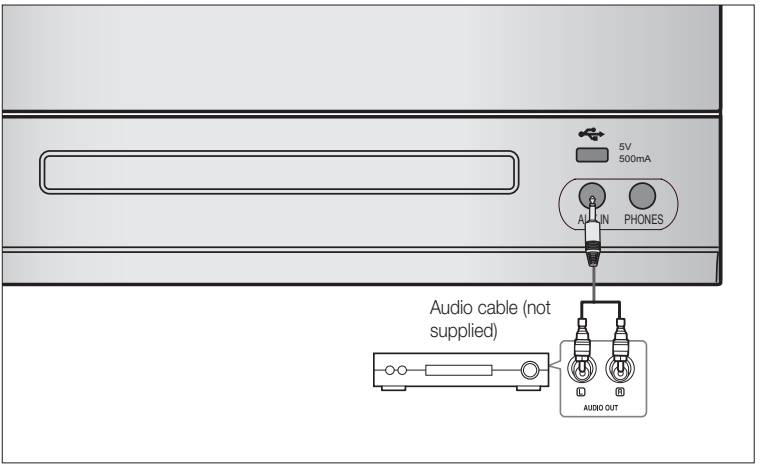
METHOD 1 : Component Video(BETTER QUALITY)

If your television is equipped with Component Video inputs, connect a Component video cable (not supplied) from the **COMPONENT OUT** (Pr, Pb and Y) Jacks on the back of the product to the Component Video Input Jacks on your TV.

METHOD 2 : Composite Video(GOOD QUALITY)

Connect the supplied Video cable from the **VIDEO OUT** jack on the back of the product to the VIDEO IN jack on your TV.

Connecting External Components



Connecting an External Analog Component

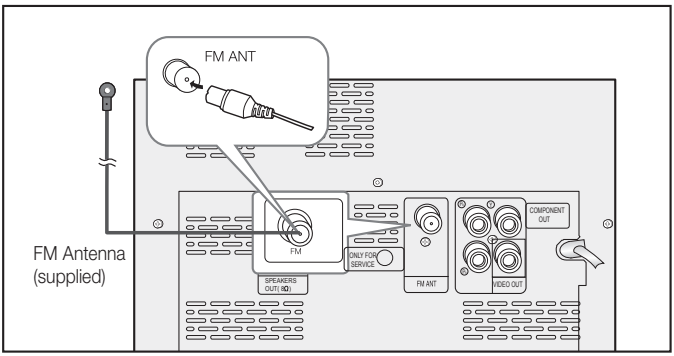
Analog signal components such as a VCR.

1. Connect AUX IN (Audio) on the player to the Audio Out of the external analog component.

2. Press the **F** ( ) button to select **AUX** input.
   You can select AUX by pressing the FUNCTION button on the remote control.

Connections

Connecting the FM Antenna



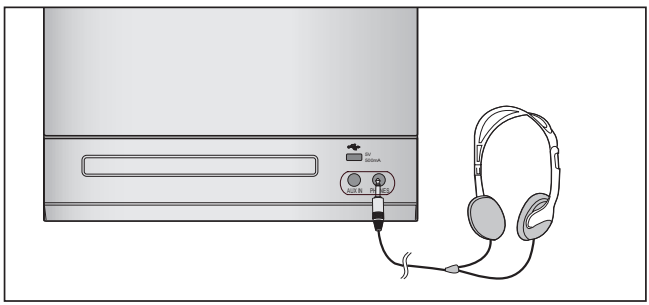
1. Connect the FM antenna (supplied) to the FM Antenna jack.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

NOTE

- This product does not receive AM broadcasts.

Connecting Headphones

You can connect a set of headphones to your micro component system so that you can listen to music or radio programmers without disturbing other people in the room. The headphones must have a 3.5ø jack or an appropriate adapter.



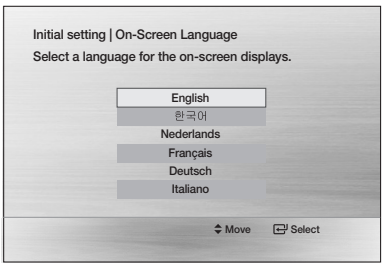
1. Connect the headphones to the PHONES jack on the front panel.
   - The speakers have no sound output.

NOTE

- Prolonged use of headphones at a high volume may damage your hearing.

Before Starting (Initial Setting)

1. Press the **POWER** button when it is plugged in TV for the first time.
   Initial Setting screen will be displayed.



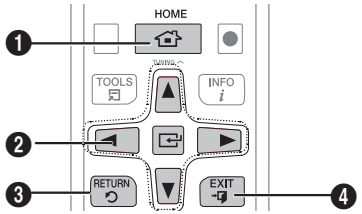
2. Press the ▲▼ buttons to select the desired language, then press the **ENTER** button.
3. Press the ▲▼ buttons to select desired TV Aspect, then press the **ENTER** button.

NOTE

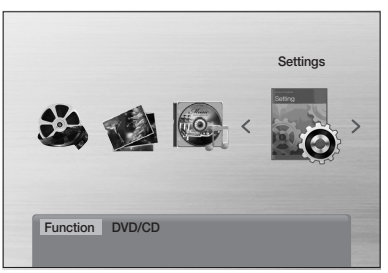
- If you move to the previous screen, press and hold Red(A) button.
- Once you select a menu language, you can change it by pressing the **STOP** (■) button on the top panel for more than 5 seconds with no disc.
- When the Initial Setting screen does not appear, refer to Initial Setting. (see page 18)

Setting the Setup menu

The access step may differ depending on the selected menu. The GUI (Graphical User Interface) in this manual may differ, depending on the firmware version.



❶	**HOME** BUTTON : Display the home menu.
❷	**ENTER / DIRECTION** BUTTON Move the cursor and select an item. Select the currently selected item. Confirm the setting.
❸	**RETURN** BUTTON : Return to the previous setup menu.
❹	**EXIT** BUTTON : Exit the setup menu.



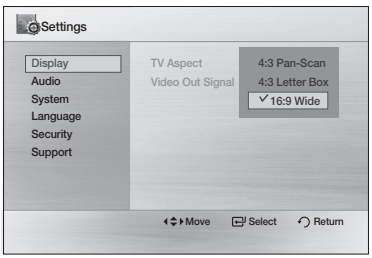
1. Press the **POWER** button in NO DISC mode, or
   During playback, press STOP button twice.
2. Press the ◄► buttons to select **Settings**, then press the **ENTER** button.
3. Press the ▲▼ buttons to select desired menu, then press the **ENTER** button.
4. Press the ▲▼ buttons to select desired sub-menu, then press the **ENTER** button.
5. Press the ▲▼ buttons to select desired item, then press the **ENTER** button.
6. Press the **EXIT** button to exit the setup menu.

Display

You can configure various display options such as the TV Aspect.

TV Aspect

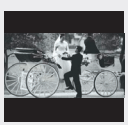
Depending on the type of television you have, you may want to adjust the screen setting.



- 4:3 Pan-Scan

Select when you want to see the 16:9 video supplied by the DVD without the black bars on top and bottom, even though you have a TV with a 4:3 ratio screen(extreme left and right portion of the movie picture will be cut off).

- 4:3 Letter Box



Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

- 16:9 Wide

You can view the full 16:9 picture on your widescreen TV.

NOTE

- If a DVD is in the 4:3 ratio, you cannot view it in the wide screen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Video Out Signal

Different countries apply different TV standard.You can select from NTSC or PAL.

- **NTSC** : You can select the NTSC video format
- **PAL** : You can select the PAL video format

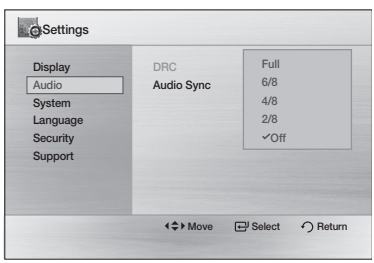
NOTE

- Depending on the type(NTSC or PAL) of main unit you have, the TV display picture may be different.

Audio

DRC (Dynamic Range Compression)

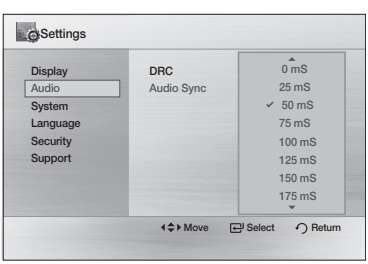
This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



- You can select either Full, 6/8, 4/8, 2/8, Off.

AUDIO-SYNC

Video and audio sync may not match with digital TV. If this occurs, adjust the audio delay time to match the video



- You can set the audio delay time between 0 mSec and 300 mSec. Set it to the optimal status.

System

Initial Setting

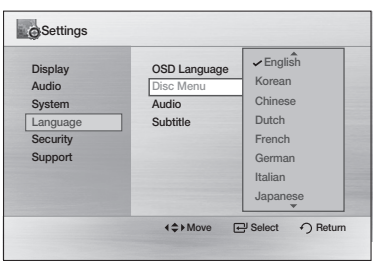
By using the Initial Setting, you can set language and TV aspect setting.

DivX(R) Registration

View DivX(R) VOD Registration Code to purchase and play DivX(R) VOD content.

Language

You can select the language you prefer for on-screen menu, disc menu, etc.



OSD Language	Select the language for the on-screen displays.
Disc Menu	Select the language for the disc menu displays.
Audio	Select the language for disc audio.
Subtitle	Select the language for disc subtitles.

※ To select another language, select OTHERS of Disc Menu, Audio and Subtitle, and enter the language code of your country (see page 32).

※ You cannot select OTHERS in the OSD Language menu.

NOTE

- The selected language will only appear if it is supported on the disc.

Security

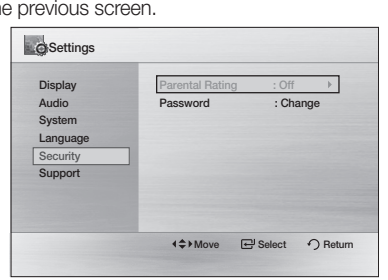
The Parental Lock function works in conjunction with DVDs that have been assigned a rating which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

Parental Rating

Select the rating level you want to set.
A larger number indicates that the program is intended for adult use only. For example, if you select up to Level 6, discs that contain Level 7, 8 will not play.

Enter the password and then press the **ENTER** button.

- The password is set to "0000" by default.
- Once the setup is complete, you will be taken to the previous screen.



Change Password

Select **Change** and enter the 4-digit password to set the parental lock using the number buttons on the remote control.

If you forgot your password

In "NO DISC" mode, press and hold the **STOP** (■) button on the top panel for 5 seconds or more. All settings will revert to the factory settings.

Support

Product Information

Provide contact information for assistance with your product.

Basic Functions

Disc Playback

1. Press the **OPEN/CLOSE** button.
2. Place a disc gently into the disc Compartment with the disc's label facing up.
3. Press the **OPEN/CLOSE** button to close the disc Compartment.

NOTE

- Resume function: When you stop disc play, the product remembers where you stopped, so when you press **PLAY** button again, it will pick up where you left off. (This function works only with DVDs.) Press the **STOP** button twice during playback to disable the Resume function.
- If no buttons are pressed on the product or remote control for more than 3 minutes when the product is in Pause mode, it will be changed to Resume stop mode. and after another 5 minutes in Resume stop mode, it will be changed to screen saver mode.
- The initial screen may appear different, depending on the content of the disc.
- Pirated discs will not run in this product because it violates the CSS (Content Scrambling System : a copy protection system) recommendations.
- DTS Audio is not supported.

※ ⊘ will appear when an invalid button is pressed.

TV Screen Saver/Power Saving Function

- If the product is left in the stop mode more than 5 minutes without any user interface, a screen saver will appear on your TV.
- If the product is left in the screen saver mode for more than 20 minutes, the power will automatically turn off.

Audio CD(CD-DA)/MP3/WMA Playback

1. Insert an Audio CD(CD-DA) or an MP3 Disc into the disc Compartment.
   - For an Audio CD, the first track will be played automatically.
     - Press the ⏮⏭ buttons to move to the previous/next track.
   - For the MP3/WMA disc, press the ▲▼◄► buttons to select **Music**, then press the **ENTER** button.
     - Press the ▲▼◄► buttons to select a desired file and press the **ENTER** button.
     - Press the ◀◀ ▶▶ buttons to move to the previous/next pages.
2. Press the **STOP** (■) button to stop playback.

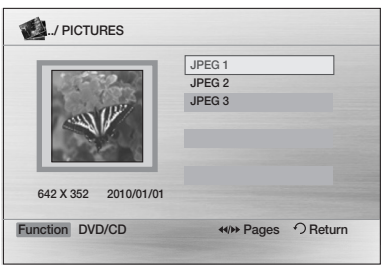
NOTE

- Some MP3/WMA-CDs may not play, depending on the recording mode.
- Table of contents of a MP3-CD varies depending on the MP3/WMA track format recorded on the disc.
- WMA-DRM files cannot be played.

JPEG File Playback

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this product.

1. Insert a JPEG disc on the disc Compartment.
2. Press the ◄,► buttons to select the **Photos**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select the folder you want to play, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the photo you want to play, and then press the **ENTER** button.
   - The selected file will play and slide show will start.
   - To stop slide show, press the **PAUSE** (**II**) button.
   - You can view the previous/next file by pressing the ◄,► buttons during the slideshow mode.



Rotate Function

JPEG

Press the **GREEN(B)** or **YELLOW(C)** button during the PAUSE mode.

- **GREEN(B)** Button: Rotate 90° Counterclock wise.
- **YELLOW(C)** Button: Rotate 90° Clockwise.

NOTE

- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.

Using the Playback Function

Forward/Reverse Search

DVD CD MP3 DivX

Press the ◄◄ ►► buttons for Search Function.

◄◄ 1 → ◄◄ 2 → ◄◄ 3 → ◄◄ 4
►► 1 → ►► 2 → ►► 3 → ►► 4

NOTE

- No sound is played in search mode.

Skipping Scenes/Songs

DVD CD MP3 DivX

Press the I◄◄ ►►I buttons.

- Each time the button is pressed during playback, the previous or next chapter, track or directory (file) will be played.

Slow Motion Play

DivX DVD

Press the **PAUSE** (**II**) button and then ►► button for Slow Motion play.

DVD	I►1 →I►2 →I►3
DivX	I►1 →I►2 →I►3

NOTE

- No sound is heard during slow playback.
- Reverse slow playback does not work.

Step Motion Play

DVD DivX

Press the **PAUSE** button repeatedly.

- The picture moves forward one frame each time the button is pressed during playback.

NOTE

- No sound is heard during step motion playback.

5 Minute Skip function

DivX

During playback, press the ◄,► button.

- Playback skips 5 minutes forward whenever you press the ► button.
- Playback skips 5 minutes backward whenever you press the ◄ button.

NOTE

- You can operate this function only on the DivX.

Using the Disc Menu

DVD

You can view the menus for the audio language, subtitle language, profile, etc.

1. During playback, press and hold the **DISC MENU** button on the remote control.
2. Press the ▲▼◄► buttons to make the desired selection, then press the **ENTER** button.

NOTE

- Depending on the disc, menu setup items may vary and this menu may not be available.

Using the Title Menu

DVD

For DVDs containing multiple titles, you can view the title of each movie.

1. During playback, press and hold the **TITLE MENU** button on the remote control.
2. Press the ▲▼◄► buttons to make the desired selection, then press the **ENTER** button.

NOTE

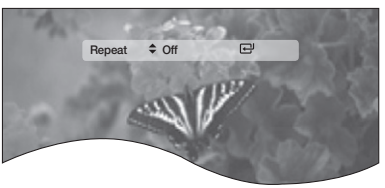
- Depending on the disc, menu setup items may vary and this menu may not be available.

Repeat Playback

DVD CD MP3 DivX

DVD/DivX Repeat

You can repeat the title, chapter or the section(A-B Repeat) of the DVD/DivX.



1. During the DVD/DivX playback, press the **REPEAT** button on the remote control.
2. Press the ▲▼ buttons to select a desired repeat mode, then press the **ENTER** button.
3. Press the ▲▼ buttons to select **Off** to return to normal play, then press the **ENTER** button.

DVD-VIDEO	Off → Title → Chapter → A -
DivX	Off → Title → Folder → All

CD/MP3 Repeat

1. During the CD/ MP3 playback, press the REPEAT button repeatedly to select the repeat mode you want.

CD	→ → → → → (Normal → Repeat Track → Repeat All → Random → Repeat Section A-B)
MP3	→ → → → → (Normal → Repeat Track→ Repeat DIR → Repeat All→ Random)

A-B Repeat Playback

DVD CD

You can repeatedly play back a designated section of a DVD or CD.

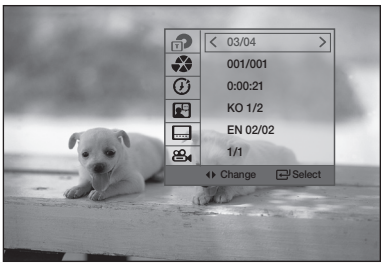
1. During the DVD disc or CD playback, press the **REPEAT** button on the remote control.
2. For DVD, press the ▲▼ buttons to select **A-**. For CD press the **REPEAT** button repeatedly until A-B appears on the TV.
3. Press the **ENTER** button at the point where you want repeat play to start (A).
4. Press the **ENTER** button at the point where you want repeat play to stop (B).
5. To return to normal playback,
   For DVD, press the **REPEAT** button to select to REPEAT OFF.
   For CD, press the **REPEAT** button to select to .

✎ **NOTE**

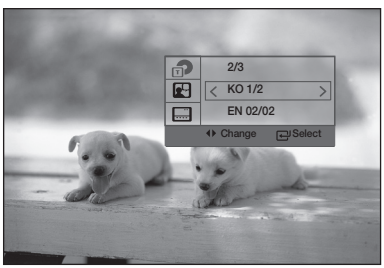
- The A-B Repeat function does not operate with DivX, MP3 or JPEG discs.

Displaying Disc Information

DVD



DivX



1. During the playback, press the **TOOLS** button on the remote control.
2. Press the ▲▼ buttons to select the desired item.
3. Press the ◄► buttons to make the desired setup change and then press the **ENTER** button.
   - You may use the number buttons of the remote control to control some item.
4. To make Disc information disappear, press the **TOOLS** button again.

NOTE

- If you are playing contents from the tools menu, some functions may not be enabled depending on the disc.
- Some tools menu may differ depending on discs and files.

TOOLS menu

- **Title**( ) : To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified as a Title.
- **Chapter**( ) : Most DVD discs are recorded in chapters so that you can quickly find a specific chapter.
- **Playing time**( ) : Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
- **Audio**( ): Refers to the film's soundtrack language. A DVD Disc can contain up to 8 audio languages.
- **Subtitle**( ): Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD Disc can contain up to 32 subtitle languages.
- **Angle**( ): When a DVD contains multiple angles of a particular scene, you can use the Angle function.

Selecting the Audio Language

DVD DivX

1. Press the **TOOLS** button.
2. Press the ▲▼ buttons to select **AUDIO** ( ) display.
3. Press the ◄► buttons to select the desired audio language.
   - Depending on the number of languages on a DVD disc, a different audio language is selected each time the button is pressed.

Selecting the Subtitle Language

1. Press the **TOOLS** button.
2. Press the ▲▼ buttons to select **SUBTITLE** ( ) display.
3. Press the ◄► buttons to select the desired subtitle language.
   - Depending on the number of languages on a DVD disc, a different subtitle language is selected each time the button is pressed.

NOTE

- Depending on the disc, the Subtitle and Audio Language functions may not be available.
- On the DivX file format, the subtitle languages may be represented by only numbers.

Caption Function

- You must have some experience with video extraction and editing in order to use this feature properly.

- To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder.
  Example. Root Samsung_007CD1.avi
  Samsung_007CD1.smi
- Up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.
- The subtitle of DivX files are *.smi, *.sub, *.srt over 148 kbyte is not supported.

Angle Function

This function allows you to view the same scene in different angles.

1. Press the **TOOLS** button.
2. Press the ▲▼ buttons to select ANGLE ( ) display.
3. Press the ◄► buttons to select the desired angle.

NOTE

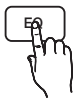
- The Angle function works only with discs on which multiple angles have been recorded.

Sound Mode

EQ

Your micro-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.

Press **EQ** on the remote control. Each time you press EQ,the EQ model will switch in the following order:



OFF→ FLAT →RANCHA → SAMBA → CUMBIA → HABANA → BOOMBA→REGGAE → PARTY → POP → HIPHOP→ ROCK→JAZZ → CLASS → STA+EQ→ DYN+S→MP3+ → VIR+S .

NOTE

- When CD Recording, the EQ function can't work and the EQ automatically covery to "OFF" mode.
- This function is not available during playback of an DVD disc.

P BASS

Your micro-compact system has a bass amplification function called Power Bass.This function makes the sound more powerful and real.

1. Press the **SOUND** button on the remote control.

   Result: "P BASS" is displayed.

2. To cancel this function, press this button again, "P OFF" is displayed for a few seconds.

NOTE

- When CD Recording, the Power Bass function can't work and the Power Bass automatically covery to "OFF" mode.

Setting the Clock

For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1. Switch the system on by pressing the **POWER** button.
2. Press **TIMER/CLOCK** button and then press the **ENTER** button,
   Result: "CLOCK" is displayed.

3. Press **ENTER,** the hour flashes.
   - Decrease the hours: ◄
   - Increase the hours: ►
4. When the correct hour is displayed, press **ENTER**.
   Result: the minutes flashes.
   - Decrease the minutes: ◄
   - Increase the minutes: ►
5. When the correct minute is displayed, press **ENTER**.
   Result: "TIME" appears in the display.
   - The current time is now set.

NOTE

- You can display the time, even when you are using another function, by pressing the **TIMER/CLOCK** button once.
- You can also use ⏮ or ⏭ on the top panel instead of ◄ or ►buttons in step 3,4.

Listening to Radio

Using buttons on the Remote Control

1. Press the **FUNCTION** button to select **FM.**
2. Tune in to the desired station.
   - **Automatic Tuning 1** : Press the **STOP** button to select PRE 01 and then press **TUNING** (∧ ∨) buttons to select the preset station.
   - **Automatic Tuning 2** : Press the **STOP** button to select MANUAL and then press and hold the **TUNING** (∧ ∨) button to automatically search for active broadcasting stations.
   - **Manual Tuning** : Press the **STOP** button to select MANUAL and then briefly press the **TUNING** (∧ ∨) button to increase or decrease the frequency incrementally.

Using buttons on the product

1. Press the **F( )** button to select **FM** .
2. Select a broadcast station.
   - **Automatic Tuning 1** : Press the **STOP** (■) button to select **PRESET** and then press the ⏮ ⏭ buttons to select the preset station.
   - **Automatic Tuning 2** : Press the **STOP** (■) button to select **MANUAL** and then press and hold the ⏮ ⏭ buttons to automatically search the band.
   - **Manual Tuning** : Press the **STOP** (■) button to select **MANUAL** and then press the ⏮ ⏭ buttons to tune in to a lower or higher frequency.

Setting Mono/Stereo

Press the **MO/ST** button.

- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select **MONO** for a clear, interference-free broadcast.

✎ **NOTE**

- This applies only when listening to an FM station.

Presetting Stations

Example : Presetting FM 89.10 in the memory

1. Press the **FUNCTION** button to select **FM**.
2. Press the **STOP** (■) button on the top panel to select <MANUAL> mode.
3. Press the ⏮ ⏭ button on the top panel to select <89.10>.
4. Press the **ENTER** button.
   - Number flashes on the display.
5. Press the ⏮ ⏭ buttons on the top panel to select preset number.
   - You can select between 1 and 15 presets.
6. Press the **ENTER** button again.
   - Press the **ENTER** button before number disappears from the display.
   - Number disappears from the display and the station is stored in memory.
7. To preset another station, repeat steps 2 to 6.
   - To tune in to a preset station, press the ⏮ ⏭ on the top panel to select a channel.

✎ **NOTE**

- You can also use **TUNING** (∧ ∨) buttons on the remote control instead of ⏮ or ⏭ buttons in step 3,5,7 .

Timer Function

The timer enables you to switch the system on or off at specific times automatically.

- Before setting the timer, check that the current time is correct.
- For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.
- If you no longer want the system to be switched on or off automatically, you must cancel the timer by pressing **TIMER ON/OFF** button.

Example: You wish to wake up to music every morning.

1. Switch the system on by pressing the **POWER** button.
2. Press the **TIMER/CLOCK** button and then press ◄ or ► buttons until ⏲**TIME** is displayed.
3. Press the **ENTER ( )** button.
   Result: **ON** is displayed for a few seconds,you can set the timer switch-on time.
4. Set the timer switch-on time.
   a Press the ◄ or ► button.
   b Press the **ENTER ( )** button.
   Result: The minutes flash.
   c Press the ◄ or ► button.
   d Press the **ENTER ( )** button.
   Result: **OFF** is displayed for a few seconds, you can now set the timer switch-off time.
5. Set the timer switch-off time.
   a Press the ◄ or ► button.
   b Press the **ENTER ( )** button.
   Result: The minutes flash.
   c Press the ◄ or ► button.
   d Press the **ENTER ( )** button.
   Result: **VOL XX** is displayed, where **XX** corresponds to the volume already set.
6. Press ◄ or ► button to adjust the volume level and press the **ENTER ( )** button.
   Result: The source to be selected is displayed.
7. Press the ◄ or ► button to select the desired source to be played when the system switches on.
   - FM (radio) : **a** Press the **ENTER ( )** button.
     b Select a preset station by press the ◄ or ► button.
   - DVD/CD : Load one Audio disc.
   - USB : Connect the USB device.
8. Press the ENTER ( ) button.
   Result: CHKREC (Do you want to record?) is displayed.
9. Press the **ENTER ( )** button.
   Result: REC N is displayed, you can press the ◄ or ► button to select the REC Y or REC N, and then press ENTER button.
   1). If you select the REC N, it will cancel tuner timing recording even if you have already set the tuner timing recording.
   2). If you select the REC Y, you can set the tuner timing recording.
   a. Press the **ENTER ( )** button.
   Result: **ON** is displayed for a few seconds, you can set the tuner timing recording switch-on time.
   b. Press the **ENTER ( )** button.
   Result: **OFF** is displayed for a few seconds, you can set the tuner timing recording switch-off time.

NOTE

- The maximal tuner timing recording time is 5 hours.
- If the timer switch on and off times are identical, the word **ERROR** is displayed.
- If the switch-on or -off time is the same as the timing recording time, only the switch-on or -off time is effective, and the timing recording time is not applied.
- If there is no disc or usb, when you select the “DVD/CD, USB, it will automatically change to “TUNER”.
- If the auto timer is turned on, the DVD/CD or USB function may require an additional step to be activated depending on the disc (or device). So it is better for you to select the tuner function instead.

Cancelling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you can cancel it.

1. To cancel the timer, press **TIMER ON/OFF** once.
   Result: ⏲ is no longer displayed.
2. To resume the timer, press **TIMER ON/OFF** again.
   Result: ⏲ is displayed again.

Mute Function

This is useful when answering a doorbell or telephone call.

1. Press **MUTE** button:
   - ' MUTE ' appears in the display.
   - To switch the sound back on, press the **MUTE** button again or the **VOL-, +** button.

Display Function

You can view all functions available on the display, adjust the brightness of the display.

1. Each time you press the **DISPLAY** button on the remote control, the display mode will change as follows:

   - **The Demo function**
     All functions available on the system appear on the front panel display.
   - **The Dimmer function**
     The Dimmer function is selected and the display darkens.
   - **Display ON**
     The Display turns on.
   - **Clock ON**
     The Clock you set is displayed.

Sleep Timer Function

You can set the time that the DVD player will shut itself off.

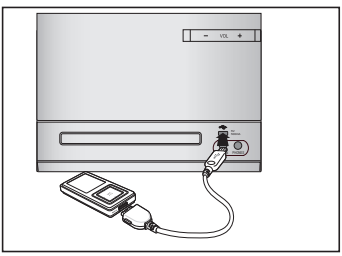
1. Press **SLEEP** button:
   - Result: The playback starts and the following indications are displayed: **90MIN**
2. Press **SLEEP** button once or more times to indicate how long the system should continue playing before it switches off:
   90MIN → 60MIN → 45MIN → 30MIN → 15MIN → SLPOFF

   At any time, you can:
   - check the remaining time by pressing the **SLEEP** button.
   - Change the remaining time by repeating steps 1 and 2.
3. To cancel the sleep timer, press **SLEEP** button repaetly until SLPOFF appears on the display.

USB Function

Playing Media Files using the USB Host Feature

You can enjoy media files such as pictures, movies and music saved on an MP3 player, USB memory stick or digital camera in high quality video with 2.0 channel sound by connecting the storage device to the USB port of the product.



1. Connect the external USB storage device to the USB jack of the main unit.
2. Select the USB mode by pressing the **F( )** button on the main unit.
   - You can select USB by pressing the FUNCTION button on the remote control.
3. Press the ◄► buttons to select **Videos**, **Music** or **Photo**.
   - Select a file to play.

Safe USB Removal

To prevent damage to the memory stored in the USB device, perform safe removal before disconnecting the USB cable.

- Press the YELLOW(C) button.
  - REMOVE will appear on the display.
- Remove the USB cable.

NOTE

- Remove the USB cable from the USB port slowly. Otherwise, it may cause damage to the USB port.

Recording Function

CD

You can record sound of the CD, the Radio Broadcasting or sound from the external source into the USB storage device.

1. Switch the system on by pressing the **POWER** button.
2. Connect the external USB storage device you want to record to the USB jack ( ) of the main unit
3. Play a Disc, adjust the Radio frequency or connect the external source to the main unit.

CD

- Press the **F**( ) button on the main unit to select the DVD/CD function.
- Press the **OPEN/CLOSE** button to open the Disc Compartment.
- Insert a CD and press the **OPEN/CLOSE** button to close the Disc Compartment.
- Use the CD selection (⏮ or ⏭) button to select the desired song.

Tuner

- Press the **F**( ) button on the main unit to select the FM function.
- Adjust the Radio frequency you want to record.

External Source

- Connect an External Component/MP3 player to the main unit.
- Press the **FUNCTION** button to select the AUX .
- Play a song from the external device.

4. Press the **USB REC** button to start recording.

CD

- "TRACK RECORDING" is displayed and CD recording starts.
- Press and hold the **USB REC** button to start recording the all tracks of Disc.
  "FULL CD RECORDING" is displayed.
- If you record the MP3 Disc, the file is copied into the USB device totally.
  "Processed XX%"" is displayed on TV. When the recording is done, "USB copy done" will be displayed.
- If there is the same file name, "File Existed" is displayed on TV, and the function is canceled.

Tuner/External Source

- "RECORDING" is displayed.

5. To stop recording, press the **STOP** (■) button and then automatically create and save as the MP3 file.
   - After the recording, a directory named "RECORDING"(CD), "CD COPY"(MP3 CD), "TUNER RECORDING" or "AUX RECORDING" will be created in your device.

✎ **NOTE**

- Do not disconnect the USB or the AC Cord during the recording as this may cause file damage.
- If you disconnected USB device during the recording, the main unit will be power off and you may not delete the recorded file, In this case, please connect the USB device to the PC and backup the USB data on the PC first and then format the USB device.
- When the USB memory is not enough, it will be displayed "NOT ENOUGH MEMORY".
- The recording works if the USB device or the HDD is formatted in the FAT file system. (The NTFS file system is not supported.)
- When you use CD high speed search function, the CD recording can't work.
- Sometimes, the recording time may be longer with some USB devices.
- When the CD recording, the EQ functions can not work and automatically change to OFF.
- When the CD recording, the REPEAT function can not work and automatically changes to OFF.
- You can not record the radio when searching or no available frequencies in the Tuner mode.
- Note that setting the input level too loud when recording music from an external device through the AUX and USB channel may introduce noise into the recording. In that case, lower the external device's volume level.

Recording Speed

1. Each time you press the **CD REC SPEED** button on the remote control, the recording speed will change as follows:
   RECORD SPD x 1→RECORD SPD x 3
   - While the Tuner or External Source is recording, the recording speed is not supported.
   - When you select RECORDSPD x 3, the audio sound will not be output.

Other Information

Troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

Symptom	Check/Remedy
I cannot eject the disc.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start.	• Check the region number of the DVD. DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this product. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• No sound is heard during fast playback, slow playback,and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
The remote control does not work.	• Is the remote control being operated within its operation range of angle and distance? • Are the batteries drained?
• Disc is rotating but no picture is produced. • Picture quality is poor and picture is shaking.	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
Audio language and subtitles do not work.	• Audio language and subtitles will not work if the disc does not contain them.
The menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	• You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.

Other Information

Symptom	Check/Remedy
• The product is not working. (Example: The power goes out or the top panel key doesn't work or a strange noise is heard.) • The product is not working normally.	• While "NO DISC" message appears on the display of the product, press and hold the **STOP** (■) button on the main unit for longer than 5 seconds with no disc (reset function). **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
The rating level password has been forgotten.	• While "NO DISC" message appears on the display of the product, press and hold the main unit's **STOP** (■) button for longer than 5 seconds. "**INIT**" appears on the display and all settings will return to the default values. And then press the **POWER** button. **Using the RESET function will erase all stored settings. Do not use this unless necessary.**
Can't receive radio broadcast.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.

Language code list

Enter the appropriate code number for OTHERS of Disc Menu, Audio and Subtitle. (See page 18).

Code	Language	Code	Language	Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1142	Greek	1239	Interlingue	1345	Malagasy	1482	Kirundi	1527	Tajik
1028	Abkhazian	1144	English	1245	Inupiak	1347	Maori	1483	Romanian	1528	Thai
1032	Afrikaans	1145	Esperanto	1248	Indonesian	1349	Macedonian	1489	Russian	1529	Tigrinya
1039	Amharic	1149	Spanish	1253	Icelandic	1350	Malayalam	1491	Kinyarwanda	1531	Turkmen
1044	Arabic	1150	Estonian	1254	Italian	1352	Mongolian	1495	Sanskrit	1532	Tagalog
1045	Assamese	1151	Basque	1257	Hebrew	1353	Moldavian	1498	Sindhi	1534	Setswana
1051	Aymara	1157	Persian	1261	Japanese	1356	Marathi	1501	Sangro	1535	Tonga
1052	Azerbaijani	1165	Finnish	1269	Yiddish	1357	Malay	1502	Serbo-Croatian	1538	Turkish
1053	Bashkir	1166	Fiji	1283	Javanese	1358	Maltese	1503	Singhalese	1539	Tsonga
1057	Byelorussian	1171	Faeroese	1287	Georgian	1363	Burmese	1505	Slovak	1540	Tatar
1059	Bulgarian	1174	French	1297	Kazakh	1365	Nauru	1506	Slovenian	1543	Twi
1060	Bihari	1181	Frisian	1298	Greenlandic	1369	Nepali	1507	Samoan	1557	Ukrainian
1069	Bislama	1183	Irish	1299	Cambodian	1376	Dutch	1508	Shona	1564	Urdu
1066	Bengali; Bangla	1186	Scots Gaelic	1300	Canada	1379	Norwegian	1509	Somali	1572	Uzbek
1067	Tibetan	1194	Galician	1301	Korean	1393	Occitan	1511	Albanian	1581	Vietnamese
1070	Breton	1196	Guarani	1305	Kashmiri	1403	(Afan) Oromo	1512	Serbian	1587	Volapuk
1079	Catalan	1203	Gujarati	1307	Kurdish	1408	Oriya	1513	Siswati	1613	Wolof
1093	Corsican	1209	Hausa	1311	Kirghiz	1417	Punjabi	1514	Sesotho	1632	Xhosa
1097	Czech	1217	Hindi	1313	Latin	1428	Polish	1515	Sundanese	1665	Yoruba
1103	Welsh	1226	Croatian	1326	Lingala	1435	Pashto, Pushto	1516	Swedish	1684	Chinese
1105	Danish	1229	Hungarian	1327	Laothian	1436	Portuguese	1517	Swahili	1697	Zulu
1109	German	1233	Armenian	1332	Lithuanian	1463	Quechua	1521	Tamil		
1130	Bhutani	1235	Interlingua	1334	Latvian, Lettish	1481	Rhaeto-Romance	1525	Tegulu		

Specifications

General	Weight	1.68 Kg (MM-E320D)
	Weight	1.76 Kg (MM-E330D)
	Dimensions	200 (W) x 142(H) x 207(D) mm
	Operating Temperature Range	+5°C~+35°C
	Operating Humidity Range	10 % to 75 %
FM Tuner	Signal/noise ratio	55 dB
	Usable sensitivity	12 dB
	Total harmonic distortion	0.6 %
Disc(1 Disc)	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12 cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
Video/Audio	Component Video	Y : 1.0 Vp-p (75 Ω load)
		Pr : 0.70 Vp-p (75 Ω load)
		Pb : 0.70 Vp-p (75 Ω load)
Amplifier	Speaker output	10 W/CH (8 Ω) x2 (MM-E320D)
	Speaker output	35 W/CH (8 Ω) x2 (MM-E330D)
	Frequency range	20Hz~20KHz
	S/N Ratio	70dB
	Channel separation	60dB
	Input sensitivity	(AUX)900mV

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.
- Design and specifi cations are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

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Bulgaria	07001 33 11	www.samsung.com
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